Mountain Weather Forecast

Peak District National Park

Forecast valid from 06:00 on Sunday 10 Sep 2023 until 23:59 on Monday 11 Sep 2023

Forecast Issued on Sunday 10 Sep 2023 at 03:39

Confidence: High for a breakdown of the very warm and humid weather, with thunderstorms for some Sunday and Monday, although the exact locations for any thundery downpours remains low. Overall confidence then falls to be low for any rain and cloud detail from late Monday onward, and very low for the onset and details of more unsettled weather Thursday onward.

Headline for Sunday 10 Sep 2023: Very warm and humid with thunderstorms possible in places.

Mountain weather hazards on Sunday 10 Sep 2023

Blizzards No Likelihood	**Heavy persistent snow** No Likelihood	**Storm force winds** No Likelihood
Gales No Likelihood	**Severe chill effect** No Likelihood	**Poor visibility** Medium Likelihood
Thunderstorms High Likelihood	**Heavy persistent rain** Medium Likelihood	**Strong sunlight** Low Likelihood

Weather and chance of precipitation at 600m					
Time					
06:00	09:00	12:00	15:00	18:00	21:00
Cloudy	Thunderstorm	Thunderstorm	Thunderstorm	Thundery showers	Cloudy
Precipitation probability					
20%	60%	70%	70%	40%	20%

Forecast for Sunday 10 Sep 2023

Weather: Cloud increasing with an area of thundery showers spreading north during the morning, with heavy and persistent downpours likely. This main swathe will clear to sunny spells for a time - feeling very warm and humid again, but sparking further heavy showers and thunderstorms. Any thunderstorms have the potential to bring torrential rain, large hail and frequent lightning. Showers largely easing away northwards during the evening with low cloud, mist and fog patches to form in valleys after dark.

Chance of cloud-free hill tops above 600m: 80% falling 20%

Low cloud and visibility: Cloud well above summits for much of the day, but any thunderstorms will give a risk of brief cloud obscuring highest summits, at around 600m, with a more general deteriroation in the evening to 400m. Moderate to good visibility away from showers, with some hazy views of distant hills possible, but becoming poor to very poor in heavy rain or hail during any thundery downpours.

Check our weather forecast every day to get the most accurate and up to date information
https://www.metoffice.gov.uk/weather/specialist-forecasts/mountain
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Forecast for Sunday 10 Sep 2023

Height (m)	Wind Speed mean/gusts (mph) Wind Direction (blowing from)						
	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	11/13 SE	10/14 SE	10/13 SE	10/14 S	7/11 SW	13/18 SW	15/21 SW
300	5/8 NE	5/8 S	7/11 SE	6/11 S	7/12 SW	8/12 SW	9/14 SW
Valley	6/10 E	4/7 S	5/10 SE	5/10 SW	5/12 SW	5/12 SW	5/13 SW

Height (m)	Temperature / Feels Like (°C)						
	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	21/19	21/19	20/20	19/18	19/19	17/15	16/14
300	21/21	21/22	23/24	21/22	21/21	19/19	18/17
Valley	20/20	21/22	24/25	22/23	21/22	19/20	18/18
Freezing Level*	3500m	3600m	3600m	3600m	3500m	3400m	3200m

**Level above which ground is expected to be frozen/snow is expected to settle.*

Meteorologist's View

Conditions have the potential to become very poor in thunderstorms, hail and heavy downpours. Anyone caught on the hills should ensure they have clear descent plans and knowledge of what to do when caught in one. While a touch less hot than recent days, it will be another very warm and humid day, with plenty of hydration needed.

Recent rainfall: measured at Cat & Fiddle: altitude 511m

Recorded at	Last 24 hours:	Last 48 hours:	Last 72 hours:
02:00 on Sun 10 Sep 2023	4mm	4mm	4mm

Forecast for Monday 11 Sep 2023

Weather: Overnight mist and fog patches possible in valleys, but soon clearing. Outbreaks of thundery rain likely spreading east later Monday morning. This breaking to give warm sunny spells but also a risk of further afternoon heavy showers and isolated thunderstorms. Cloud thickening from the west after dark.

Maximum wind: Southwesterly 15-20mph.

Chance of cloud-free hill tops above 600m: 40% at first, improving to 90% by the afternoon, falling to 40% in the west after dark.

Low cloud and visibility: Areas of cloud at 400m during the morning. Cloud breaking and clearing hills by the afternoon. Further cloud returning to 500m during the evening from the west. Poor visibility in any thundery rain, but otherwise some good views away from showers. Very poor visibility in any early morning fog patches.

Temperature: **Valleys:** Plus 16 Celsius rising to Plus 25 Celsius.
At 600m: Plus 16 Celsius.
Freezing level: Above summits.

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